

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-12. (Canceled)

Claim 13. (Currently Amended) A An isolated porcine uroplakin II gene promoter having a the base sequence of SEQ ID NO: 1.

Claim 14. (Canceled)

Claim 15. (Previously Presented) An expression vector comprising the base sequence of the promoter of Claim 13 and a base sequence coding for a target protein at the 3' end of the promoter.

Claim 16. (Canceled)

Claim 17. (Previously Presented) The expression vector of Claim 15, wherein the target protein is human erythropoietin (EPO).

Claim 18. (Canceled)

Claim 19. (Previously Presented) The expression vector of Claim 17, which is the expression vector pUP2/hEPO deposited under the accession number KCTC 10352BP.

Claim 20. (Currently Amended) The expression vector of Claim 17, which is an I/pUP2/hEPO vector containing a the neomycin-resistant gene of SEQ ID NO: 5 as a selective marker, and ~~an~~ the insulator of SEQ ID NO: 6 at the 5' end of the UPII promoter.

Claim 21. (Canceled)

Claim 22. (Currently Amended) The expression vector of Claim 17, which is a pUP2/hEPO (WPRE) vector containing a the neomycin-resistant gene of SEQ ID NO: 5 as a selective marker, and a the woodchuck hepatitis virus posttranscriptional regulatory element (WPRE) of SEQ ID NO: 7 at the 3' end of the EPO gene.

Claim 23. (Canceled)

Claim 24. (Currently Amended) The expression vector of Claim 17, which is an I/pUP2/hEPO (WPRE) vector that contains a the neomycin-resistant gene of SEQ ID NO: 5 as a selective marker, ~~an~~ the insulator of SEQ ID NO: 6 at the 5' end of the UP2 promoter, and an WPRE of SEQ ID NO: 7 at the 3'-end of the EPO gene.

Claim 25. (Canceled)

Claim 26. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 17.

Claim 27. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 18.

Claim 28. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 19.

Claim 29. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 20.

Claim 30. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 21.

Claim 31. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 22.

Claim 32. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 23.

Claim 33. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 24.

Claim 34. (Withdrawn) An animal's fertilized ovum introduced with the expression vector of Claim 25.

Claim 35. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 26.

Claim 36. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 27.

Claim 37. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 28.

Claim 38. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 29.

Claim 39. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 30.

Claim 40. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 31.

Claim 41. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 32.

Claim 42. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 33.

Claim 43. (Withdrawn) A transgenic animal obtained by the implantation of the fertilized ovum of Claim 34.

Claim 44. (Withdrawn) The transgenic animal of Claim 35, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 45. (Withdrawn) The transgenic animal of Claim 36, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 46. (Withdrawn) The transgenic animal of Claim 37, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 47. (Withdrawn) The transgenic animal of Claim 38, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 48. (Withdrawn) The transgenic animal of Claim 39, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 49. (Withdrawn) The transgenic animal of Claim 40, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 50. (Withdrawn) The transgenic animal of Claim 41, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 51. (Withdrawn) The transgenic animal of Claim 42, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 52. (Withdrawn) The transgenic animal of Claim 43, which is one selected from the group consisting of porcine, mouse, bovine, poultry, ovine and caprine animals.

Claim 53. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 17 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 54. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 18 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 55. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 19 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 56. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 20 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 57. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 21 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 58. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 22 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 59. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 23 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 60. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 24 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.

Claim 61. (Withdrawn) A method for producing useful proteins, which comprises the steps of:

implanting the animal's fertilized ovum introduced with the expression vector of Claim 25 into a surrogate mother animal; and

obtaining transgenic animals from the surrogate mother animal; and

isolating and purifying useful proteins from the urine of the transgenic animals.